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German Democratic Republic

XX FDD Abstract

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MEETING OF TECHNICAL SUB-COMMISSION FOR ELECTRICAL CONTROL DEVICES (6 pp; German; September 1951)

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This document consists of

(Technical Sub-Commission) for Electrical Regulating and Controlling Devices, which belongs to the Technical Commission for Precision Instruments, under the administration of the VVB Mechanik (Federation of People-Owned Enterprises for the Photography, Motion-Picture, and Office-Machine Industries). Points discussed at the meeting were:

1) A circular letter, dated 5 January 1951 and prepared by the Ministry of Machine-Building, on the functions of the technical commissions in the people-owned industry. It was agreed that the FUK lb would deviate from the proposal in the circular letter and hold meetings every 4-6 months, corresponding to the need. Sub-Commission members who were scheduled to attend the Industrial Exhibit in Berlin and the Technical Fair in Hannover were named.

2) a. Electrical calculators. Minutes of a meeting, held in Dresden on 11 September 1951, were read, and matters concerning electrical calculators were discussed. It was emphasized that dry rectifiers with particularly stable characteristics are to be developed to replace tubes.

b. Optical control devices. Instructions were given to submit a list of all departments engaged in research on optical control devices to the FUK lb, for forwarding to the German Planning Commission.

c. Amplifying tubes. Negotiations with the OSW (Oberspreewerk, Berlin-Oberschoeneweide), concerning the development of improved thyratrons, were reported on. Because the material could not be procured to produce metal thyratrons, the OSW stated that it was prepared to produce thyratrons filled with rare gas. It was decided to request funds from the German Planning Commission, so that an order could be placed with the OSW to begin production of three types of thyratrons in 1951: S 1/6, S 1/20, and S 1/50. All participants at the meeting agreed that arrangements should be made for the production of three other types of thyratrons by people-owned plants, such as the Erfurt Radio Plant, the Neuhaus Radio Tube Factory, and the BGW (Berlin Incandescent Lamp Factory). Also discussed were the difficulties involved in the development of ignitrons, the main problem being the center electrode; research on these tubes is being done by the OSW and the EAW (Electrical Apparatus Plant).

3) Comparative experiments with different methods of constructing Antriebsregler (drive regulators?). The Askania Plant and the Leipzig Telecommunications Plant are conducting these comparative tests and will complete the apparatuses by the end of October 1951. The ZKB (Central Construction Office) for Machine-Building will conduct similar tests in 1952.

4) Establishment of a joint research program for the purposes of standardizing the elements used in the construction of regulating and controlling devices, operating more economically, and eliminating duplication of work. A program was set up for the production of the following types of standard repeater units, which specifies the plants engaged in the preliminary and final stages of construction and the planned completion date of the apparatuses: choke-coupled amplifiers, valve and thyatron amplifiers, and grid-controlled (gittergesteuert) mercury-vapor rectifiers.

5) Miscellaneous points, including a proposal to expand the FUK lb by including representatives of the consumer industry, and new security regulations of the FUK lb.

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4 March 1952

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